**CURRICULUM VITAE**

Charles F. Geier, Ph.D.

**CONTACT INFORMATION**

|  |  |
| --- | --- |
| 229 Health and Human Development BuildingDepartment of Human Development and Family StudiesCollege of Health and Human DevelopmentThe Pennsylvania State UniversityUniversity Park, PA 16802Phone: 814-865-1728Email: cfg2@psu.edu |  |

ORCID <http://orcid.org/0000-0001-5013-9543>

Scopus Author ID 16039536100

**EDUCATION**

*Graduate*

* 1. Ph.D., Cognitive Psychology, Concentration in Cognitive Neuroscience

University of Pittsburgh, Center for the Neural Basis of Cognition (University of Pittsburgh and Carnegie Mellon University)

2000-2002 M.S., Neuroscience

Ohio University, Athens OH

*Undergraduate*

* 1. B.S., Biological Sciences

Ohio University, Athens OH

**PROFESSIONAL POSITIONS**

2017- **Associate Professor** (with tenure), Department of Human Development and Family Studies, Pennsylvania State University

2011-2017 **Assistant Professor**, Department of Human Development and Family Studies, Pennsylvania State University

 Affiliated Faculty: The Huck Institutes of the Life Sciences; Interdepartmental Graduate Program in Neuroscience; The Prevention Research Center; The Social, Life, and Engineering Sciences Imaging Center (SLEIC); The Center for the Brain Basis of Cognition (CBBC)

2010-2011 **Postdoctoral Scholar**, National Research Service Award (NRSA)

 Cardiovascular Behavioral Medicine Training Program (F31)

 University of Pittsburgh, Departments of Psychiatry, Medicine, and Psychology

 Graduate School of Public Health

 Co-Mentors: Stephen Manuck, Ph.D. and Eric Donny, Ph.D

2009-2010 **Postdoctoral Research Associate**

 University of Pittsburgh, Department of Psychology

 Eric Donny, Ph.D., Director, Addictive Behaviors Research Laboratory

2002-2003 **Visiting Instructor**, Department of Biological Sciences, Ohio Northern University

**HONORS AND AWARDS**

2016-present Dr. Francis Keesler Graham Early Career Professorship in Developmental Neuroscience, Social Science Research Institute, Penn State University

2010 Outstanding Poster Presentation - Post doc, Western Psychiatric Institute and Clinic Research Day, University of Pittsburgh, Department of Psychiatry

2007 Tim Post Award for Research Excellence, University of Pittsburgh, Developmental and Cognitive Psychology Graduate Programs

2004 NSF Integrative Graduate Education Research and Training Fellowship (IGERT) (Co-Mentors: James McClelland, Ph.D., Beatriz Luna, Ph.D.)

2001 Ohio University Graduate Student Travel Award

1998 Summer Undergraduate Research Fellowship (SURF), Ohio University College of Osteopathic Medicine

**PROFESSIONAL MEMBERSHIPS**

2001- Society for Neuroscience

2003-2008 Cognitive Neuroscience Society

2013- Association for Psychological Science

2013- Society for Research in Child Development

2013- Society for Research in Adolescence

2013- Developmental Cognitive Neuroscience Society (FLUX)

2014- Society for Behavioral Medicine

2014- American Psychological Association: Divisions 7 (Dev.), 38 (Health), 50 (Addictions)

**GRANTS AND CONTRACTS**

*Current*

2017-2021 Brain Mechanisms of Overeating in Children

 National Institute of Diabetes and Digestive and Kidney Diseases, 1R01 DK110060-01A1

 Role: Co-Investigator (Keller, PI)

2016-2020 Using Serious Game Technology to Improve Sensitivity to Eye Gaze in Autism

 National Institute for Mental Health, 1R61/R33 MH110624

 Role: Co-Investigator (Scherf, PI)

2016-2020 Effects of Cigarette Availability on Neural and Subjective Sensitivity to Rewards

 National Institute for Drug Abuse, R01 DA041438-01

 Role: Co-Investigator (Wilson, PI)

2015-2017 Complex Interactions of Behavior, Genes, and Environment in the Multi-system Characterization of the Effects of Sleep Loss on Health, Cardio-metabolic Disease Risk, Cognition, and the Epigenome

 Penn State Clinical and Translational Science Institute (CTSI)

 Role: Co-Investigator (Chang, PI)

2015-2017 Learning to Breathe (Mindfulness Intervention in Adolescents)

 United States Department of Education

 Role: Co-Investigator (Greenberg, Frank, co-PIs)

2014-2016 fMRI Neurofeedback and Decision-Making in Habitual Cigarette Smokers

 National Cancer Institute, R21 CA1900931-01

 Role: Co-Investigator (Wilson, PI)

2014-2016 Neurodevelopmental Changes Make Adolescents Inconsistent, Not Insane

 Social Science Research Institute, Penn State

 Role: Principal Investigator

*Completed*

2015 Using Eye-tracking Technology to Enhance an Online Educational Game for Individuals with Autism

 Center for Online Innovation in Learning (COIL) Research Initiation Grant, Penn State

 Role: Co-Investigator (Scherf, PI)

2014-2015 Illuminating the Neurocognitive Contributors to Nicotine Addiction and Relapse Among Adults with Attention Deficit Hyperactivity Disorder

 Social Science Research Institute, Penn State

 Role: Co-Investigator (Huang-Pollock, PI)

2013-2014 Enhancing Smokers’ Control over Brain Reward Circuitry Using fMRI Neurofeedback

Social Science Research Institute and Milton S. Hershey Cancer Institute, Penn State

Role: Co-Investigator (Wilson, PI)

2012-2014 Examining the Influence of Incentives on Inhibitory Control in Late Adolescent and Adult Smokers

Social Science Research Institute and Milton S. Hershey Cancer Institute, Penn State

 Role: Principal Investigator

**PUBLICATIONS**

**\*\****Denotes graduate student working under my supervision*

*Under Review*

1. Adise, S., Geier, C.F., White, C.N., & Keller, K.L. (*Under Review*) Food or Money? Children’s brains respond differently to the anticipation of rewards regardless of weight status.
2. **Geier, C.F., \*\***Roberts, N., & **\*\***Lydon, D.M. (*Under Review*). Incentive effects on visual spatial working memory
3. Posey, L., **Geier, C.F.,** & Kwasnica, A., (*Under Review*). Dopamine, genetics, and Prospect Theory: Heterogeneity in Decision Making Under Risk.
4. Hallquist, M., **Geier, C.F.,** & Luna, B. (*Under Review*) Developmental refinement of functional brain networks facilitates cognitive control and incentive processing.
5. MacLean, R.R., Smyth, J.M., **Geier, C.F.,** Pincus, A.L., & Wilson, S.J. (*Under Review*). Assessing naturalistic risk taking in nondaily smokers using a novel momentary Balloon Analogue Risk Task (BART).

*Published or in press*

1. **\*\***Lydon, D. & **Geier, C.F.** (*in press*). Age-varying associations between sensation seeking, impulse control, and daily cigarette smoking during adolescence and young adulthood. *Journal of Research on Adolescence*
2. **Geier, C.F.,** **\*\***Roberts, N., **\*\***Lydon, D.M. (*In press*). The effects of smoking abstinence on incentivized working memory. *Substance Use and Misuse*
3. Hawes, S.W., Chahal, R., Hallquist, M.N., Paulsen, D.J., **Geier, C.F.**, & Luna, B. (2017). Modulation of Reward-Related Neural Activation on Sensation Seeking Across Development, *NeuroImage*
4. **\*\***Lydon, D.M., Ram, N., Conroy, D.E., Pincus, A.L., **Geier, C.F**., & Maggs, J.L. (2016) The within-person associations between alcohol use and sleep duration and quality *in situ:* An experience sampling study. *Addictive Behaviors*, *61,* 68-73.
5. Sweitzer, M.M., **Geier, C.F.**, Denlinger, R., McClernon, F.J., Addicott, M.A., Raiff, B.R., Dallery, J., & Donny, E.C. (2016) Smoking abstinence-induced changes in resting state functional connectivity with ventral striatum predict lapse during a quit attempt. *Neuropsychopharmacology, 41(10),* 2521-2529.
6. Sweitzer, M.M., **Geier, C.F.**, Denlinger, R., Forbes, E., Raiff, B., Dallery, J., McClernon, F.J., & Donny, E.C. (2016). Blunted striatal response to monetary reward anticipation during smoking abstinence predicts lapse during a contingency management-supported quit attempt. *Psychopharmacology, 233(5),* 751-760.
7. Chung, T., Paulsen, D., **Geier, C.F.**, Luna, B., & Clark, D.B. (2015). Regional brain activation supporting cognitive control in the context of reward is associated with treated adolescents’ marijuana problem severity at follow-up: A Preliminary Study. *Developmental Cognitive Neuroscience*, *16,* 93-100.
8. **\*\***Lydon, D.**,** Howard, M., Wilson, S.J., & **Geier, C.F.** (2015). The perceived causal structure of smoking: Smoker and non-smoker comparisons. *Journal of Health Psychology, 21(9),* 2042-2051. DOI: 10.1177/1359105315569895
9. **\*\***Lydon, D., \*\*Roberts, N., & **Geier, C.F.** (2015). Reduced influenced of monetary incentives on Go/No-Go performance during smoking abstinence. *Nicotine and Tobacco Research, 17(9),* 1178-1181. DOI: 10.1093/ntr/ntu283.
10. Paulson, D., Hallquist, M., **Geier, C.F**., & Luna, B. (2015). Effects of Incentives, Age, and Behavior on Brain Activation During Inhibitory Control: A Longitudinal fMRI Study. *Developmental Cognitive Neuroscience, 11,* 105-115. DOI: 10.1016/j.dcn.2014.09.003.
11. Zhai, Z., Pajtek, S., Luna, B., **Geier, C.F.**, Ridenour, T., & Clark, D. (2014). Reward Modulated Response Inhibition, Cognitive Shifting and the Orbital Frontal Cortex in Early Adolescence. *Journal of Research on Adolescence, 25(4),* 753-764. DOI: 10.1111/jora.12168.
12. **\*\***Lydon, D., Wilson, S.J., **\*\***Childs, A., & **Geier, C.F.** (2014). Adolescent Nicotine Dependence: What we know and where we are headed. *Neuroscience and Biobehavioral Reviews, 45,* 323-342. http://dx.doi.org/10.1016/j.neurobiorev.2014.07.003
13. **Geier, C.F.,** Sweitzer, M., Denlinger, R., Sparacino, G., & Donny, E. (2014). Abstinent Adult Daily Smokers Show Reduced Anticipatory but Elevated Saccade-related Brain Responses During a Rewarded Antisaccade Task. *Psychiatry Research: Neuroimaging, 223(2),* 140-147.DOI: 10.1016/j.pscychresns.2014.04.007
14. Sweitzer, M.M., **Geier, C.F.,** Joel, D., Denlinger, R., Donny, E. (2013). Dissociated Effects of Anticipating Smoking Versus Monetary Reward in the Caudate as a Function of Smoking Abstinence. *Biological Psychiatry, 223,* 140-147*.*DOI: 10.1016/j.biopsych.2013.11.013
15. MacLean, R., **Geier, C.F**., Henry, S.L., & Wilson, S.J. (2013). Digital Peer Interactions Affect Risk Taking in Young Adults: A Preliminary Study. *Journal of Research on Adolescence, 24(4),* 772-780*.* DOI: 10.1111/jora.12093
16. **Geier, C.F**. (2013). Adolescent Cognitive Control and Reward Processing: Implications for Risk Taking and Substance Use. *Hormones and Behavior, 64(2),* 333-342.
17. Luna, B., Paulsen, D., Padmanabhan, A., & **Geier, C.F.** (2013). Cognitive Control and Motivation. *Current Directions in Psychological Science, 22 (2),* 94-100.
18. Weaver, M.T., **Geier, C.F.**, Levin, M.E, Caggiula, A.R., Sved, A.F., Donny, E. (2012) Adolescent Exposure to Nicotine Results in Reinforcement Enhancement but does not Affect Adult Responding in Rats. *Drug and Alcohol Dependence, 125(3),* 307-312.
19. **Geier, C.F.** & Luna, B. (2012) Developmental Effects of Incentives on Response Inhibition. *Child Development, 83(4),* 1262-1274.
20. Padmanabhan, A., **Geier, C.F.**, Ordaz, S., Teslovich, T., & Luna, B. (2011) Developmental Changes in Brain Function Underlying the Influence of Reward Processing on Inhibitory Control. *Developmental Cognitive Neuroscience, 1(4),* 517-529.
21. Chung, T., **Geier, C.F**., Luna, B., Pajtek, S., Terwilliger, R., Thatcher, D., & Clark, D. (2011) Enhancing Response Inhibition by Incentive: Comparison of adolescents with and without substance use disorder. *Drug and Alcohol Dependence, 115(1-2),* 43-50.
22. Luna, B., Velanova, K., & **Geier, C.F.** (2010) Methodological Approaches in Developmental Neuroimaging Studies. *Human Brain Mapping, 31,* 863-871.
23. **Geier, C.F.**, Terwilliger, R., Teslovich, T., Velanova, K., Luna, B. (2010) Immaturities in Reward Processing and its Influence on Inhibitory Control in Adolescence. *Cerebral Cortex, 20(7)*, 1613-29.
24. **Geier, C.F**. & Luna, B. (2009) The Maturation of Incentive Processing and Cognitive Control. *Pharmacology, Biochemistry, and Behavior*, *93(3),* 212-221
25. **Geier, C.F.**, Garver, K.E., Terwilliger, R., & Luna, B. (2009) The Development of Working Memory Maintenance. *Journal of Neurophysiology,* *101(1),* 84-99.
26. Luna, B., Velanova, K., & **Geier, C.F.** (2008*)* Development of Eye Movement Control. *Brain & Cognition, 68(3),* 293-308.
27. **Geier, C.F**., Garver, K.E., & Luna, B. (2007) Circuitry Underlying Temporally Extended Spatial Working Memory. *NeuroImage, 35,* 904-915.

*Book Chapters*

1. **\*\***Lydon. D., Galvan, A., & **Geier, C.F**. (2015) Adolescents and addiction: Vulnerabilities, opportunities, and the role of brain development. S.J. Wilson (Ed.), *The Wiley-Blackwell Handbook on the Cognitive Neuroscience of Addiction.* Oxford, UK: Wiley-Blackwell.
2. Luna, B., Padmanabhan, A., & **Geier, C.F.** (2013) The Adolescent Sensation Seeking Period: Development of Reward Processing and its Effects on Cognitive Control. In V. Reyna and V. Zayas (Eds.), The Neuroscience of Risky Decision Making. Washington, DC; American Psychological Association.
3. **Geier, C.F.,** Padmanabhan, A., & Luna, B. (2012) Immaturities in Incentive Processing and Executive Function in Adolescence. In T. Palomo, R.M., Kostrzewa, R.J. Beninger (Eds.), *Staging Neuropsychiatric Disorders: Etiopathogenesis and Treatment.* (pp.297-308). Springer.

*Articles in Preparation*

1. **Geier, C.F.** & **\*\***Lydon, D.M. (in preparation). Developmental Effects on Incentives on Antisaccade Performance
2. **\*\***Roberts, N., Lydon, D.M., & Geier, C.F. (in preparation). Functional connectivity differences in abstinent vs. non-abstinent daily smokers.
3. **Geier, C.F.** & Ernst. M. (in preparation). Rewarded anti- and pro-saccade task performance in children, adolescents, and adults.
4. **\*\***Lo, L., **\*\***White, R., **\*\***Roberts, N., Luna, B., & **Geier, C.F.** (in preparation). Evidence for Incentive Motivation Differences in Adolescents and Young Adults: Functional Connectivity Data using Group Iterative Multiple Model Estimation (GIMME).
5. **\*\***Roberts, N., Oravecz, Z., & Geier, C.F. (in preparation). Rewarded Inhibitory Control: A LATER Model
6. **\*\***Lydon, D., Weigard, A., Huang-Pollock, C., Wilson, S.J., & **Geier, C.F.**(in preparation). Effects of social and monetary incentives on the speed of information uptake are moderated by task difficulty.

**CONFERENCE PRESENTATIONS**

1. **\*\***Roberts, N.J., **\*\***Lydon, D.L., **\*\***White, R., & **Geier, C.F.** (2016). Development of reward and cognitive control resting state connectivity networks using extended unified structural equation modeling. Society for Neuroscience Annual Meeting, San Diego, CA
2. **\*\***Adise, S., Caprio, A.M., **\*\***Roberts, N.J., White, C.N., **Geier, C.F**., Keller, K.L. (2016). Differences in brain response to anticipation for food and money rewards predicts children’s intake of savory foods served at a highly palatable buffet. Society for Neuroscience Annual Meeting, San Diego, CA
3. **\*\***White, R., **\*\***Lydon, D., **\*\***Lo, L.L., Luna, B., & **Geier, C.F**. (2015). Development of Reward and Cognitive Control Connectivity using Group Iterative Multiple Model Estimation (GIMME). The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2015) – Leiden, Netherlands.
4. **\*\***Roberts, N., **\*\***Braymiller, J. & **Geier, C.F.** (2015). The Relationship between Inhibitory Control and Weight Status in Adolescence: A Pilot Study Incorporating fMRI, Behavioral Measures, and *ad libitum* Food Intake. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2015) – Leiden, Netherlands.
5. **\*\***Lydon, D., Ram, N., **Geier, C.F.**, & Gatzke-Kopp, L. (2015). Effort Discounting in Children Exposed to Prenatal Smoking. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2015) – Leiden, Netherlands.
6. **\*\***Roberts, N., **\*\***Lydon, D., & **Geier, C.F**. (2014). Incentive Effects on Visual Spatial Working Memory. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2014) – Hollywood, CA.
7. **\*\***Lydon, D. & **Geier, C.F**. (2014). Differences in the Perceived Causal Structures of Cigarette Addiction in Late Adolescent Smokers and Non-smokers. Poster presented at the 2014 American Psychological Association Convention, Washington, D.C.
8. **Geier, C.F**., **\*\***Lydon, D., & **\*\***Roberts, N. \*\* (2014). The influence of incentives on cognitive control during adolescence. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2014) – Hollywood, CA. *Presenter*
9. **\*\***Lydon, D. & **Geier, C.F**. (2014). Integrating smoking beliefs into a neurobiological model of smoking-related decision-making. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2014) – Hollywood, CA.
10. **\*\***Lydon, D., Spory, M., Howard, M., & **Geier, C.F**. (2014). The Perceived Causal Structures of Cigarette Addiction in Late Adolescent Smokers and Non-Smokers. Graduate Poster Exhibition, Penn State
11. Sweitzer, M., **Geier, C.F.,** Joel, D., Denlinger, R., Forbes, E., & Donny, E. Neural predictors of smoking cessation outcomes using a contingency management framework. Society for Research in Nicotine and Tobacco Annual Meeting (2014).
12. Paulson, D., **Geier, C.F.,** & Luna, B. Developmental changes in incentive processing during inhibitory control: A longitudinal fMRI study. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2013).
13. **Geier, C.F.** The Influence of Incentives on Inhibitory Control During Adolescence: A Developmental Cognitive Neuroscience Approach. Talk presented at The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2013). *Presenter*
14. **\*\***Lydon, D.M., **\*\***Child, A., **\*\***Beahm, J., & **Geier, C.F**. Incentive Effects on Inhibitory Control Across Developmental and Cigarette-smoking Samples. The International Congress for Integrative Developmental Cognitive Neuroscience - ‘FLUX Congress’ (2013).
15. **\*\***Lydon, D.M., **\*\***Child, A., Beahm, J. \*\*, & **Geier, C.F**. A Novel Mixed Anti- and Visually Guided Saccade Task to Assess Incentive Effects on Inhibitory Control. Society for Neuroscience Abstracts (2013).
16. Wilson, S.J., Beltz, A.M., Henry, S.L., **Geier, C.F.,** Gilmore, R.O., Turrisi, R.J., & Berenbaum, S.A. Neurocognitive Processing in Relation to Changing Alcohol Use Across the Early Years of College. Research Society on Alcoholism Annual Meeting (2013).
17. **Geier, C.F**., & Luna, B. Incentive Effects on Response Inhibition in Healthy Adolescents and Young Adults. Society for Research on Child Development (2013). Talk presented at symposium. *Presenter*
18. Sweitzer, M.M., **Geier, C.F**., Joel, D., McGurrin, P., Denlinger, R., Donny, E.C. Dissociated effects of anticipation of smoking versus monetary reward in the striatum as a function of abstinence. Society for Neuroscience Abstracts (2012).
19. Hallquist, M.N., **Geier, C.F.**, Luna, B. Functional Brain Networks Underlying Reward Processing and Inhibitory Control in Adolescence and Adulthood. Organization for Human Brain Mapping Conference (2011)
20. **Geier, C.F.**, Sweitzer, M., Denlinger, R., Sparacino, G., & Donny, E.C. Activation Differences Evoked During a Rewarded Antisaccade Task in Abstinent Adult Smokers and Non-Smokers. Society for Neuroscience Abstracts (2011). *Presenter*
21. **Geier, C.F.**, Sweitzer, M., Denlinger, R., Sparacino, G., & Donny, E.C. The Effects of Reward Contingency on Response Inhibition in Adult Abstinent Smokers and Non-smokers. The Society for Research on Nicotine and Tobacco Annual Meeting (2011). *Presenter*
22. **Geier, C.F.**, Terwilliger, R., & Luna, B. Persistent Immaturities in Different Stages of Incentive Processing after Minimizing Value Differences. Tenth Annual Western Psychiatric Institute and Clinic Research Day (2010) \*\***Best poster award – post doc.** *Presenter*
23. Long, E., Thatcher, D.L., Luna, B., **Geier, C.F.**, & Clark, D.B. Substance use disorder (SUD) Risk and Inhibitory Control on an Antisaccade Task Tenth Annual Western Psychiatric Institute and Clinic Research Day (2010)
24. Asato, M.A., Nawarawong, N., **Geier, C.F.**, Hermann, B., Terwilliger, R., & Luna, B. Neurobiologic Correlates of Cognitive and Psychiatric Comorbidity in Pediatric Epilepsy. Tenth Annual Western Psychiatric Institute and Clinic Research Day (2010)
25. Long, E. Thatcher, D. L., Luna, B., **Geier, C.F**., & Clark, D. Substance use disorder risk and inhibitory control on an anti-saccade task. CPDD (2010)
26. **Geier, C.F**., Terwilliger, R., & Luna, B. Persistent Immaturities in Different Stages of Incentive Processing after Minimizing Value Differences in Adolescents and Adults. Society for Neuroscience Abstracts (2009). *Presenter*
27. Luna, B., **Geier, C.F**., Fox, K., Terwilliger, R. Brain System Changes Underlying the Development of Working Memory through Adolescence. Schizophrenia Congress (2009)
28. Asato, M.A., **Geier, C.F**., Terwilliger, R., Meachim, M., Crumrine, P.K., Luna, B. The Nature of Executive Dysfunction in Children and Adolescents with Epilepsy: Neuroanatomical Correlates. 37th Child Neurology Society Annual Meeting (2008)
29. Willford, J.A., **Geier, C.F.**, Zeglen, M.J., Cyphert, N.W., Kruk, R.D., Luna, B., Day, N.L. Reward and Response Inhibition Processing Differences Associated with Prenatal Alcohol Exposure in Young Adults: A Fast, Event-related fMRI study. Research Society on Alcoholism Annual Meeting (2008)
30. Luna, B, **Geier, C.F**., Velanova, K., Terwilliger, R., Teslovich, T., Liu, R., Meachim, M., Asato., M. Immaturities of Cognitive Control and Reward Processing in Adolescence. Society of Biological Psychiatry, Symposium on Adolescence (2008)
31. Liu, R., Garver, K.E., **Geier, C.F**., Minshew, N., Sweeney, J.A., Luna, B. Developmental improvements in brain function supporting response inhibition from adolescence to adulthood in autism. Society for Neuroscience Abstracts (2007)
32. Asato, MR, Terwilliger, R, Crumrine, PK, Vaisleib, A, Meachim, M, Teslovich, T, Geier, CF, Yasui, E, Luna, B. Executive function impairment and psychiatric co-morbidity in pediatric epilepsy: neural correlates. Meeting of the American Epilepsy Society (2007).
33. **Geier, C.F.**, Teslovich, T., Thatcher, D., Clark, D., & Luna, B. The effects of reward contingency on response inhibition in adolescents and adults: A fast, event-related fMRI study. Society for Neuroscience Abstracts (2007). *Presenter*
34. Luna, B., Liu, R., Garver, K.E., **Geier, C.F.**, Minshew, N., Sweeney, J.A. Development of Brain Function Supporting Executive Function in High Functioning Autistic Individuals. Cognitive Neuroscience Society Abstracts (2007)
35. **Geier, C.F.**, Garver, K.E., Luna, B. Developmental Changes in the Circuitry Underlying Sustained Working Memory. Cognitive Neuroscience Society Abstracts (2007). *Presenter*
36. **Geier, C.F.**, McClelland, J., Luna, B. A Biologically-Inspired Neural Network Model of the Antisaccade Task. Cognitive Neuroscience Society Abstracts (2006). *Presenter*
37. **Geier, C.F.**, Costello, M., Willford, J.A., Luna, B. Inhibitory Responses In the Antisaccade Task Improve with Longer Fixation Times. Society for Neuroscience Abstracts (2005). *Presenter*
38. **Geier, C.F.**, Garver, K.E., Scherf, K.S., Costello, M.C., Asato, M.R., Luna, B. Working Memory Maintenance during Short and Long Delays: A Fast, Event-Related fMRI Study. Cognitive Neuroscience Society Annual Meeting (2005). *Presenter*
39. **Geier, C.F.**, Garver, K.E., Scherf, K.S., Costello, M.C., Asato, M.R., Luna, B. Early Versus Persistent Maintenance in Working Memory: A Fast Event-related fMRI Oculomotor Study. Society for Neuroscience Abstracts (2004). *Presenter*
40. Asato, M.R., Garver, K.E., Costello, M.C., Scherf, K.S., **Geier, C.F.**, Wilds, M.A., Willford, J.A., Luna, B. Brain Processes Supporting Oculomotor Sequence Learning: An Event-related fMRI study. Society for Neuroscience Abstracts (2004).
41. Luna, B., Garver, K.E., Geier, **C.F.**, Asato, M.R., Willford, J.A., Scherf, K.S. Event-related fMRI studies characterizing development of spatial working memory from late childhood to adulthood. Cognitive Neuroscience Abstracts (2004).
42. **Geier, C.F.**, Hobbs, K.H., Hooper, S.L. Modeling p1 (LP neuron) muscle isometric motor activity. Society for Neuroscience Abstracts (2002). *Presenter*
43. **Geier, C.F.**, Huwe, J.A., Peterson E.H. Differences in posterior canal afferents to the descending and medial vestibular nuclei in *Pseudemys (Trachemys) scripta*. Association for Research in Otolaryngology Abstracts (2000). *Presenter*

**INVITED TALKS**

1. Examining the Influence of Incentives on Cognitive Control, Department of Psychology Colloquium, Rutgers University, Newark, April 1, 2016.
2. Normative Development of Motivated Cognitive Control and the Effects of Daily Smoking, Methodology Center Brown Bag, Penn State University (Spring 2016)
3. Adolescent Brain Development: Risks and Opportunities. Commonwealth Prevention Alliance, Penn State (June 2015)
4. Presenter, Healthy People Penn State (Fall, 2015)
5. Presenter, Healthy People Penn State (Fall 2014)
6. Presented at PROSPER group meeting (Fall 2013)
7. Presenter, Healthy People Penn State (Fall 2013)
8. Examining the Influence of Incentives on Inhibitory Control in Adolescent Smokers. Presented at the Penn State Cancer Control and Population Health Retreat (Summer, 2013).
9. A Discussion of “Using Neural Data to Test a Theory of Investor Behavior: An Application to Realization Utility”. Presented at the 2nd Annual Risk Management Symposium. (Spring 2013).
10. Imaging the Normative Development of Motivated Inhibitory Control and the Effects of Daily Smoking. Presented at the Prevention Research Center Seminar Series. (Fall 2012)
11. Normative Development of Motivated Inhibitory Control and the Effects of Daily Smoking. Presented at The Methodology Center brown bag seminar series, Penn State University (Spring 2012)
12. The Influence of Incentives on Inhibitory Control: A Developmental Cognitive Neuroscience Perspective. Presented at Penn State University (2010).
13. fMRI and Oculomotor Studies Investigating the Maturation of Cognitive Control. Presented at the Behavioral Neuroscience Seminar, Department of Psychiatry, University of Illinois at Chicago (2007)

**SERVICE**

Ad hoc reviewer for:

|  |  |
| --- | --- |
| *Journal of Neuroscience* | *Developmental Neuroscience* |
| *Journal of Neurophysiology*  | *Archives of General Psychiatry* |
| *Neuroimage* | *Neuropsychologia* |
| *Psychological Science* | *Journal of Experimental Child Psychology* |
| *Experimental Brain Research* | *Developmental Cognitive Neuroscience* |
| *Neuroscience and Biobehavioral Reviews* | *Motivation and Emotion* |
| *Developmental Science* | *Social, Cognitive, Affective Neuroscience* |
| *Child Development* | *Brain Imaging and Behavior* |
| *American Journal of Psychiatry* | *Psychology of Addictive Behaviors* |

*Cognitive, Affective, and Behavioral Neuroscience Addictive Behaviors*

*Brain and Cognition Psychological Bulletin*

*Journal of Cognitive Neuroscience Brain Structure and Function*

*Current Biology*

*Journal of the American Academy of Child and Adolescent Psychiatry*

*International Journal of Behavioral Development*

*PNAS*

*Drug and Alcohol Dependence*

*Nicotine and Tobacco Research*

*Nature Communications*

*Journal of Experimental Psychology: General*

Professional

2017 Member, Promotion and Tenure Review Committee, Department of Human Development and Family Studies, Penn State University

2017 Reviewer, Penn State CTSI TL1 Predoctoral Training Program Fellowship Applications

2016 Grant panel member, Collaborative Learning Networks, Directorate for Social, Behavioral, and Economic Sciences, National Science Foundation. June 1-3, 2016

2015- Consulting editor, *Journal of Research on Adolescence*

2014- Penn State, Neuroscience Dual-Degree Committee, College of Health and Human Development

2014-2017 Penn State University, Graduate Admissions Committee

2014-2015 Interim Director of HDFS Undergraduate Honors Program

2013-2014 SSRI Strategic Planning: Human Systems vision group member

2013- Social, Life, and Engineering Sciences Imaging Center (SLEIC), Advisory Committee, Member

2013- Social, Life, and Engineering Sciences Imaging Center (SLEIC), Safety Committee, Member

2013- Program Planning, Development, and Evaluation (PPD&E), Penn State Department of Human Development and Family Studies, Committee Member

2013 The International Congress for Integrative Developmental Cognitive Neuroscience, “FLUX Congress”, Funding Committee member

2012 Society for Research in Child Development (SRCD) Transitions Meeting abstract reviewer

2011-2013 Penn State University, Graduate Admissions Committee

2011 Penn State University, Child Care Centers Research Coordinator

2011 Society for Research in Adolescence (SRA) abstract reviewer

2003 Ohio Northern University, Department of Biology, Program Development and Initiatives, Committee member

Graduate

2003-2007 University of Pittsburgh, Department of Psychology, New student recruitment weekend planning/volunteer

2005-2006 University of Pittsburgh, Department of Psychology, Cognitive Program, Elected as Graduate Student Representative (liaison between faculty and graduate students)

2005 University of Pittsburgh, Department of Psychology, Student representative on faculty curriculum committee

2005 University of Pittsburgh, Department of Psychology, Weekly Brown Bag Seminar Series

Coordinator (Cognitive Program)

2004 University of Pittsburgh, Department of Psychology, New graduate student Mentor

2000 Ohio University Department of Biology recruitment weekend volunteer

Society

2016 Provided overview of adolescent brain development for use in a resentencing trial for an individual criminally convicted as a juvenile.

2012 Contributor to written brief of Amicus Curiae read by US Supreme Court in case that led to elimination of juvenile incarceration for life with no chance of parole.

**TEACHING AND MENTORING**

*Undergraduate Courses*

 Adolescent Development (HDFS 239)

 Concepts and Issues in Human Development – Honors Seminar (HDFS 300H)

*Graduate Courses*

Human Development Across the Lifespan (HDFS 501)

 Developmental Cognitive Neuroscience of Adolescence (HDFS 597a)

 Analysis of Functional Magnetic Resonance Imaging (HDFS 597b)

*Faculty Mentor (Training Grants)*

PAMT: Prevention and Methodology Training, NIDA (2014- ), Advisee: David Lydon, Nicole Roberts

COPT: (2014- ), Advisees: Nicole Roberts, Jessica Braymiller, Shana Adise

2016-2017 Examining the Relationship between Puberty and Reward Sensitivity in Overweight and Healthy Weight Adolescents

 USDA Childhood Obesity Prevention Training Program: Seed Grant

 Role: Mentor and PI (Braymiller & Roberts, co-PIs)

2016-2017 The Role of Reward and Inhibitory Control Pathways in Overeating in Healthy and Overweight Children

 USDA Childhood Obesity Prevention Training Program: Seed Grant

 Role Co-Mentor and Co-I (Adise, PI)

2015-2016 Neural Underpinnings of Reward Sensitivity in Overweight and Healthy Weight Adolescents

 USDA Childhood Obesity Prevention Training Program: Seed Grant

 Role: Mentor and PI (Braymiller & Roberts, co-PIs)

2014-2017 Understanding Decision Making and Reward for Food Choice in Overweight and Healthy Weight Children

 USDA Childhood Obesity Prevention Training Program: Seed Grant

 Role: Co-Mentor and Co-I (Adise, PI)

2014-2017 Examining Reward Sensitivity, Impulsivity, and Habituation in Health Weight and Overweight Adolescents

 USDA Childhood Obesity Prevention Training Program: Seed Grant

 Role: Mentor and Co-I (Roberts, PI)

*PhD Students*

2017- Daniel Petrie, Human Development and Family Studies, Penn State University

2016-2017 Jacoba Rock, Human Development and Family Studies, Penn State University

2014- Mike Strayer, Neuroscience, Penn State University (co-advising with Dr. Orfeu Buxton,

BBH)

2014-2016 Roisin White, Human Development and Family Studies, Penn State University

2014-2016 Jessica Braymiller, Human Development and Family Studies, Penn State University

2013- Nicole Roberts, Human Development and Family Studies, Penn State University

2012- David Lydon, Human Development and Family Studies, Penn State University

2011-2012 Kristi Goetz, Human Development and Family Studies, Penn State University

*Graduate Student Committees*

In HDFS 8

In Psychology 7

In Neuroscience 2

In Nutrition 4

*Undergraduate*

2017-2018 Tevin Carrington, Penn State University

2015-2016 Fatima Pina, Penn State University

2015-2016 Victoria Brittain, Penn State University

2015-2016 Erica Maire, Penn State University

2014 Charnice Culmer, Penn State University, McNair Summer Scholar

2013-2014 Romina Fano-Barbieri, Penn State University

2013-2014 Purnima Malik, Penn State University

2013-2014 Rosanny Reyes, Penn State University

2013-2014 John Beahm, Penn State University

2013 Ashley Hamilton-Johnson, Spelman College, Summer Research Opportunity at Penn State (SROP) Undergraduate Student Researcher

2011 Hanna Mincemoyer, Penn State University, Honor’s Option for HDFS 239: Adolescent Development

2008 Theresa Teslovich. Analysis of event-related fMRI data investigating reward effects on

inhibitory control.

2008 Lindsay Bannon. Eye-tracking data analysis investigating rewarded antisaccade task.

2008 Jordan Carr. Analysis of eye-tracking and fMRI data investigating the development of reward processing and cognitive control.

1. Jennifer Burns. Analysis of memory guided saccade task and rewarded antisaccade task eye tracking data.

2007 Anthony Esposito. Analysis of event-related fMRI data investigating the effect of

rewards on response inhibition.

**OUTREACH**

2012-2015 Member, Board of Directors, The Daily Collegian

2014 Judge, Penn State Graduate Student Research Exhibition

2009 The Adolescent Brain. Talk Delivered to Parents and School Board of Alderdice High School, Pittsburgh, PA.

2003 West Central Ohio Science Day Judge (Faculty Volunteer, Ohio Northern University)